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Date June 8, 2005

Pages including cover 5

Subject Request for Corrected Filing Receipt

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Re: Application of Martin Alistair HAYES et al.
Serial No.: 10/509,519; Int'l. Appl. No.: PCT/EP03/03343
Title: *Process for the Preparation of Morpholine
Derivatives and Intermediates Therefore*
Attorney Docket No. PG4792USw

Attached is:

1. Request for Corrected Filing Receipt;
2. Copy of Official Filing Receipt
3. Copy of PCT publication cover sheet (Int'l. Appl. No. PCT/EP03/03343)

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Martin Alistair HAYES et al.

Serial No.: 10/509,519

Unit: 1614

Filed: May 2, 2005

Examiner: To be assigned

For: *Process for the Preparation of
Morpholine Derivatives and
Intermediates Therefore*Commissioner for Patents
P.O. Box 1450
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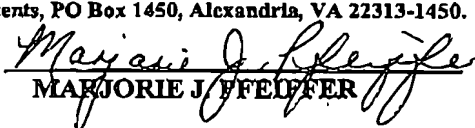
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FILING RECEIPT



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Non-Publication Request: No

Early Publication Request: No

BEST AVAILABLE COPY**Title**

Process for the preparation of morpholine derivatives and intermediates therefore

Preliminary Class

514

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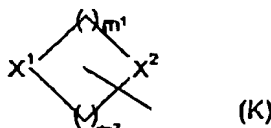
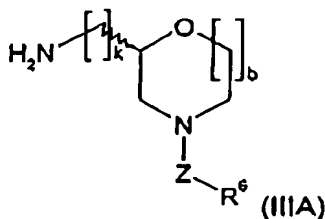
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[Continued on next page]

(54) Title: PROCESS FOR THE PREPARATION OF MORPHOLINE DERIVATIVES AND INTERMEDIATES THEREFORE



(57) Abstract: Processes for the preparation of a compound of formula (IIA)(I), or a salt thereof; wherein: Z represents a bond, CO, SO₂, CR¹⁰R⁷(CH₂)_n, (CH₂)_nCR¹⁰R⁷, CHR⁷(CH₂)_n, CHR⁷(CH₂)_nS, CHR⁷(CH₂)_nOCO, CHR⁷(CH₂)_nCO, COCHR⁷(CH₂)_n or SO₂CHR⁷(CH₂)_n; R⁶ represents C₁₋₆ alkyl, C₂₋₆ alkenyl, aryl, heteroaryl, aryl-C₂₋₆ alkenyl, -CN or a group of formula -Y²-J¹; R⁷ represents hydrogen, C₁₋₄ alkyl, CONR⁸R⁹ or COOC₁₋₆ alkyl; and

b represent 1 or 2, such that a+b represents 2 or 3; n represents an integer from 0 to 4; M represents a C₃₋₈ cycloalkyl or C₃₋₈ cycloalkenyl group fused to a monocyclic aryl or monocyclic heteroaryl group; J¹ represents a moiety of formula (K); (II), wherein X¹ represents oxygen, NR¹¹ or sulphur, X² represents CH₂, oxygen, NR¹² or sulphur, m¹ represents an integer from 1 to 3 and m² represents an integer from 1 to 3, provided that m¹+m² is in the range from 3 to 5, also provided that when both X¹ and X² represent oxygen, NR¹¹, NR¹² or sulphur, m¹ and m² must both not equal less than 2, wherein (K) is optionally substituted by one or more (eg. 1 or 2) -Y¹-aryl, -Y¹-heteroaryl, -Y¹-CO-aryl, -CO-C₁₋₆ cycloalkyl, -Y¹-CO-heteroaryl, -C₁₋₆ alkyl, -Y¹-COOC₁₋₆ alkyl, -Y¹-COC₁₋₆ alkyl, -Y²-W, -Y²-CO-W, -Y²-NR¹³R¹⁶, -Y²-CONR¹⁵R¹⁶, hydroxy, oxo, -Y¹-SO₂NR¹³R¹⁶, -Y²-SO₂C₁₋₆ alkyl, -Y²-SO₂aryl, -Y²-SO₂heteroaryl, -Y²-NR¹³C₁₋₆ alkyl, -Y²-NR¹³SO₂C₁₋₆ alkyl, -Y¹-NR¹³CONR¹⁵R¹⁶, -Y²-NR¹³COOR¹⁴ or -Y¹-COCONR¹⁵R¹⁶ groups, and is optionally fused to a monocyclic aryl or heteroaryl ring; R⁸, R⁹, R¹⁰, R¹¹, R¹², R¹³ and R¹⁴ independently represent hydrogen or C₁₋₆ alkyl; R¹⁵ and R¹⁶ independently represent hydrogen or C₁₋₆ alkyl or R¹⁵ and R¹⁶ together with the nitrogen atom to which they are attached may form a morpholine, piperidine or pyrrolidine ring; R¹⁷ and R¹⁸ independently represent hydrogen or C₁₋₆ alkyl; W represents a saturated or unsaturated, non-aromatic 5-7 membered ring containing between 1 and 3 heteroatoms selected from nitrogen, oxygen or sulphur, optionally substituted with one or more C₁₋₆ alkyl, halogen or hydroxy groups; Y¹, Y² and Y³ independently represent a bond or a group of formula -(CH₂)_nCR⁴R⁵(CH₂)_n- wherein R⁴ and R⁵ independently represent hydrogen or C₁₋₄ alkyl or R⁴ and R⁵ may together with the carbon atom to which they are attached form a C₁₋₈ cycloalkyl group, and p and q independently represent an integer from 0 to 5 wherein p+q is an integer from 0 to 5, and: k is 1 or 2; are disclosed.

WO 03/082835 A1